

## EAST Search History

| Ref # | Hits  | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|---|------------------|---------|------------------|
| S2    | 16174 | polymer adj electrolyte not membrane.ti.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/30 09:09 |
| S3    | 4717  | (polymer adj electrolyte not membrane).ti.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/30 14:45 |
| S4    | 364   | 429/127,325.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/30 14:50 |
| S5    | 5638  | 429/127,188,189,300-347.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/30 15:07 |
| S6    | 21    | S5 and polymer adj electrolyte and (aluminum adj oxide "al.sub.2" adj "o.sub.3" titanium adj oxide "tio. sub.2" silicon oxide "sio.sub.2") and (poly adj2 vinylidene adj flouride adj3 hexafluoropropene adj copolymer pvdf-hfp poly adj3 ethylene adj oxide poly adj3 propylene adj oxide polyacrylonitrile, poly adj3 vinyl adj pyrrolidinone) and ("liasf.sub.6" "lipf.sub.6" "libf.sub.6" lithium adj imidazolidine adj bis adj3 boron adj trifluoride lin adj2 "o.sub.2" adj scf\$7 libob "liclo.sub.4") and (organicadj carbonate\$2 ester ether lactone) and (cyclic acyclic) adj carbonate and (dimethyl adj carbonate dmc diethyl adj carbonate dec ethylmethyl adj carbonate) and (graphite graphitic adj carbon lithium li adj intercalating) and transition adj metal adj oxide | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/30 15:18 |

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|----|------|---|---|----|----|------------------|
| S7 | 6    | S5 and polymer adj electrolyte and (aluminum adj oxide "al.sub.2" adj "o.sub.3" titanium adj oxide "tio. sub.2" silicon adj oxide "sio.sub.2") and (poly adj2 vinylidene adj flouride adj3 hexafluoropropene adj copolymer pvdf-hfp poly adj3 ethylene adj oxide poly adj3 propylene adj oxide polyacrylonitrile, poly adj3 vinyl adj pyrrolidinone) and ("liasf.sub.6" "lipf.sub.6" "libf.sub.6" lithium adj imidazolidine adj bis adj3 boron adj trifluoride lin adj2 "o.sub.2" adj scf\$7 libob "liclo.sub.4") and (organicadj carbonate\$2 ester ether lactone) and (cyclic acyclic) adj carbonate and (dimethyl adj carbonate dmc diethyl adj carbonate dec ethylmethyl adj carbonate) and (graphite graphitic adj carbon lithium li adj intercalating) and transition adj metal adj oxide | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/30 15:21 |
| S8 | 2028 | S5 not lithium  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/30 15:21 |
| S9 | 6    | S5 and polymer adj electrolyte and (aluminum adj oxide "al.sub.2" adj "o.sub.3" titanium adj oxide "tio. sub.2" silicon adj oxide "sio.sub.2") and (poly adj2 vinylidene adj flouride adj3 hexafluoropropene adj copolymer pvdf-hfp poly adj3 ethylene adj oxide poly adj3 propylene adj oxide polyacrylonitrile, poly adj3 vinyl adj pyrrolidinone) and ("liasf.sub.6" "lipf.sub.6" "libf.sub.6" lithium adj imidazolidine adj bis adj3 boron adj trifluoride lin adj2 "o.sub.2" adj scf\$7 libob "liclo.sub.4") and (organicadj carbonate\$2 ester ether lactone) and (cyclic acyclic) adj carbonate and (dimethyl adj carbonate dmc diethyl adj carbonate dec ethylmethyl adj carbonate) and (graphite graphitic adj carbon li adj intercalating) and transition adj metal adj oxide not S8  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 07:48 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S10 | 5638 | 429/127,188,189,300-347.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 07:48 |
| S11 | 2028 | S10 not lithium   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 07:48 |
| S12 | 6    | S10 and polymer adj electrolyte and (aluminum adj oxide "al.sub.2" adj "o.sub.3" titanium adj oxide "tio.sub.2" silicon adj oxide "sio.sub.2") and (poly adj2 vinylidene adj flouride adj3 hexafluoropropene adj copolymer pvdf-hfp poly adj3 ethylene adj oxide poly adj3 propylene adj oxide polyacrylonitrile, poly adj3 vinyl adj pyrrolidinone) and ("liasf.sub.6" "lipf.sub.6" "libf.sub.6" lithium adj imidazolid adj bis adj3 boron adj trifluoride lin adj2 "o.sub.2" adj scf\$7 libob "liclo.sub.4") and (organic adj carbonate\$2 ester ether lactone) and (cyclic acyclic) adj carbonate and (dimethyl adj carbonate dmc diethyl adj carbonate dec ethylmethyl adj carbonate) and (graphite graphitic adj carbon li adj intercalating) and transition adj metal adj oxide not S11 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:04 |
| S13 | 60   | S10 and polymer adj electrolyte and (poly adj2 vinylidene adj2 fluoride adj2 hexafluoropropene PVDF adj2 hfp)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:15 |
| S14 | 1    | S10 and polymer adj electrolyte and (poly adj2 vinylidene adj2 fluoride with hexafluoropropene PVDF adj2 hfp) same (inorganic adj oxide "Sio.sub.2" silicon adj dioxide "al.sub.2"\$6 aluminum adj oxide "tio.sub.2" titanium adj oxide)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:08 |

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|-----|----|---|---|----|----|------------------|
| S15 | 4  | S10 and polymer adj electrolyte and (poly adj2 vinylidene adj2 fluoride adj2 hexafluoropropene PVDF adj2 hfp) same silica                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:17 |
| S16 | 20 | "429"/\$.ccls. and (poly adj2 vinylidene adj2 fluoride adj2 hexafluoropropene PVDF adj2 hfp) same silica  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:19 |
| S17 | 1  | "429"/\$.ccls. and (poly adj2 vinylidene adj2 fluoride adj2 hexafluoropropene PVDF adj2 hfp) same silica same n-methyl adj pyrrolidinone same ethyl adj alcohol | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:19 |
| S18 | 1  | electrolyte and (poly adj2 vinylidene adj2 fluoride adj2 hexafluoropropene PVDF adj2 hfp) same silica same n-methyl adj pyrrolidinone same ethyl adj alcohol    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:20 |
| S19 | 1  | (poly adj2 vinylidene adj2 fluoride adj2 hexafluoropropene PVDF adj2 hfp) same silica same n-methyl adj pyrrolidinone same ethyl adj alcohol                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:20 |
| S20 | 1  | polymer and silica same n-methyl adj pyrrolidinone same ethyl adj alcohol   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:21 |
| S21 | 1  | silica same n-methyl adj pyrrolidinone same ethyl adj alcohol   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:30 |
| S22 | 1  | silica same (n-methyl adj pyrrolidinone 1-Methylpyrrolidine Methylpyrrolidine N-Methyltetrahydropyrrole) same ethyl adj alcohol                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:45 |

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|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S23 | 317 | silica same (n-methyl adj pyrrolidinone 1-Methylpyrrolidine Methylpyrrolidine N-Methyltetrahydropyrrole)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:46 |
| S24 | 14  | silica same (n-methyl adj pyrrolidinone 1-Methylpyrrolidine Methylpyrrolidine N-Methyltetrahydropyrrole) same alcohol same polymer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:52 |
| S25 | 54  | (n-methyl adj pyrrolidinone 1-Methylpyrrolidine Methylpyrrolidine N-Methyltetrahydropyrrole) same ethyl adj alcohol  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:54 |
| S26 | 11  | (n-methyl adj pyrrolidinone 1-Methylpyrrolidine Methylpyrrolidine N-Methyltetrahydropyrrole) same ethyl adj alcohol same suspension  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 08:52 |
| S27 | 15  | ("4004047"   "4132816"   "4148275"   "4427720"   "4726101"   "5217757"   "5334417"   "5658614"   "5674610"   "6045863"   "6110262"   "6120843"   "6203847"   "6274193").PN. OR ("6730179").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/05/31 08:59 |
| S28 | 29  | (silicon adj dioxide silicon adj oxide "sio.sub.2") same (poly adj2 vinylidene adj2 fluoride adj2 hexafluoropropene PVDF adj2 hfp)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 10:10 |
| S29 | 4   | "5219679".pn. "5296318".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 10:12 |
| S30 | 2   | "20020039677".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/31 14:20 |

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|-----|---|--|--------------------|----|----|------------------|
| S31 | 9 | (US-20040043295-\$ or<br>US-20040110068-\$ or<br>US-20050191558-\$).did. or<br>(US-6815123-\$ or US-6730179-\$ or<br>US-6112908-\$ or US-6833009-\$ or<br>US-6821675-\$ or US-6156458-\$).<br>did. | US-PGPUB;<br>USPAT | OR | ON | 2006/05/31 14:21 |
| S32 | 7 | S31 and (silica silicon adj dioxide<br>silicon adj oxide "sio.sub.2")  | US-PGPUB;<br>USPAT | OR | ON | 2006/05/31 14:23 |